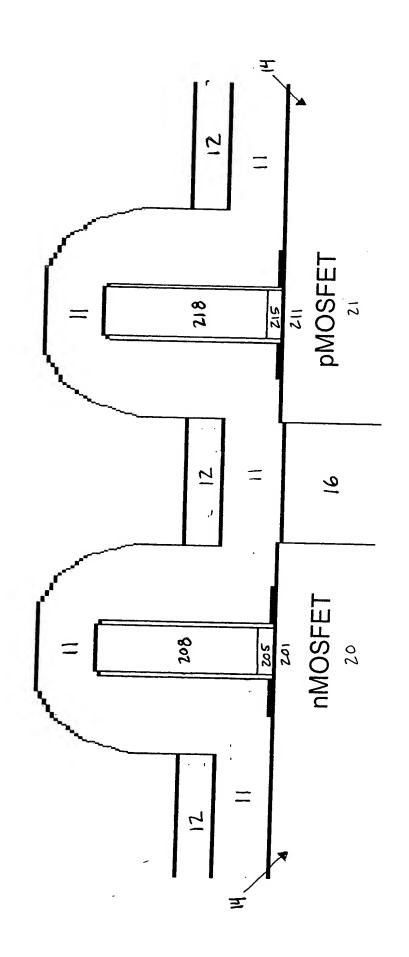
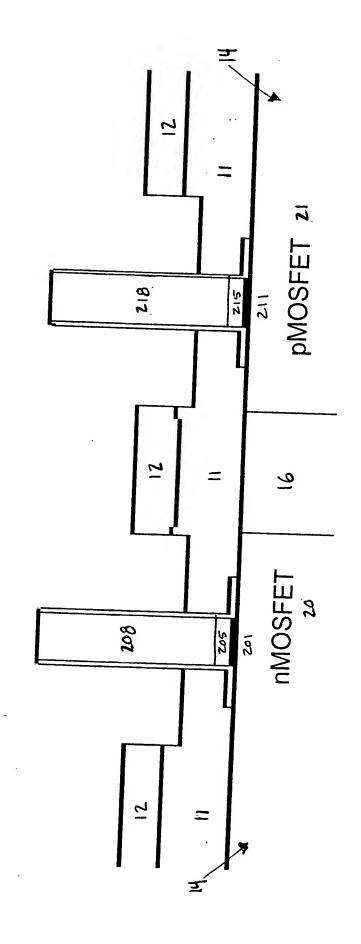


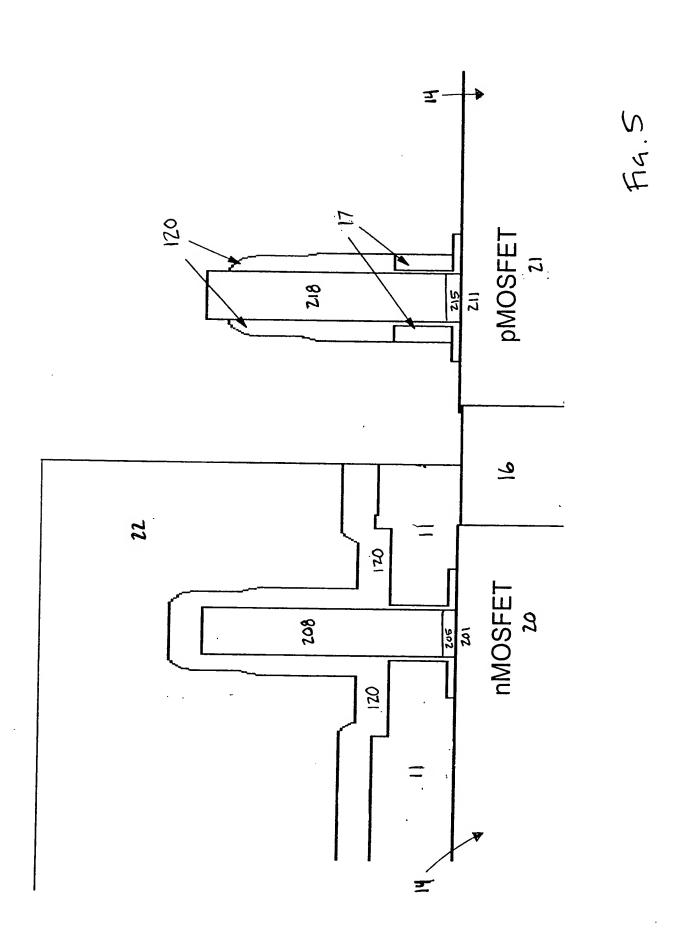
F14.2

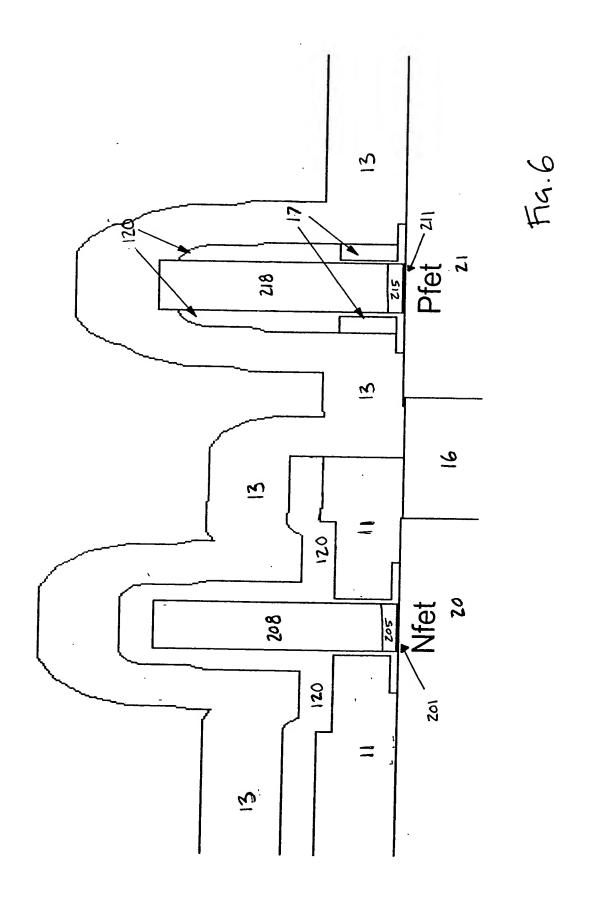


F19.3



A4.4





Numerical simulation for claimed structure:

Stress along x-axis/lateral direction, Sxx, cut at 5 nm below gate-oxide

(Thickness of the compressive and tensile nitride films is 50 nm.

In nMOSFET channel Sxx= + 190MPa and Sxx= - 300MPa in pMOSFET channel.

The intrinsic stress in the tensile and compressive nitride films, Sxx_intrisic = +/- 1.8GPa)

F19.7 **pMOSFET** channel Stress, Sxx, (dynesノcm゚2)

nMOSFET

60+60.1

channel

5°09+08

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-5.00+09

1.00

08.Q

09.0

0.40

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60+60.4-

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